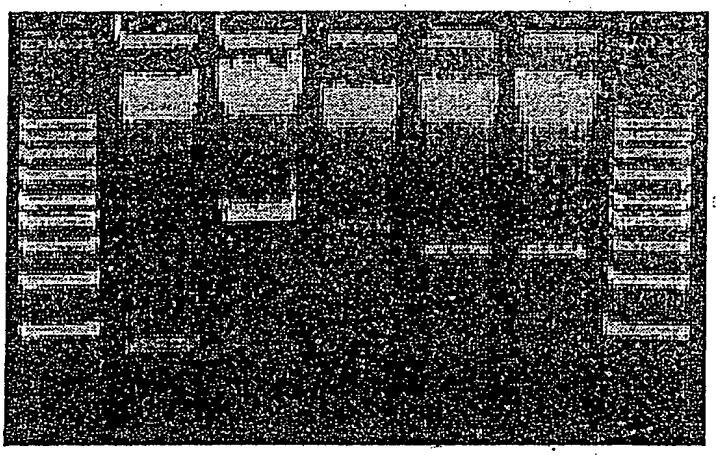

FIG. 4

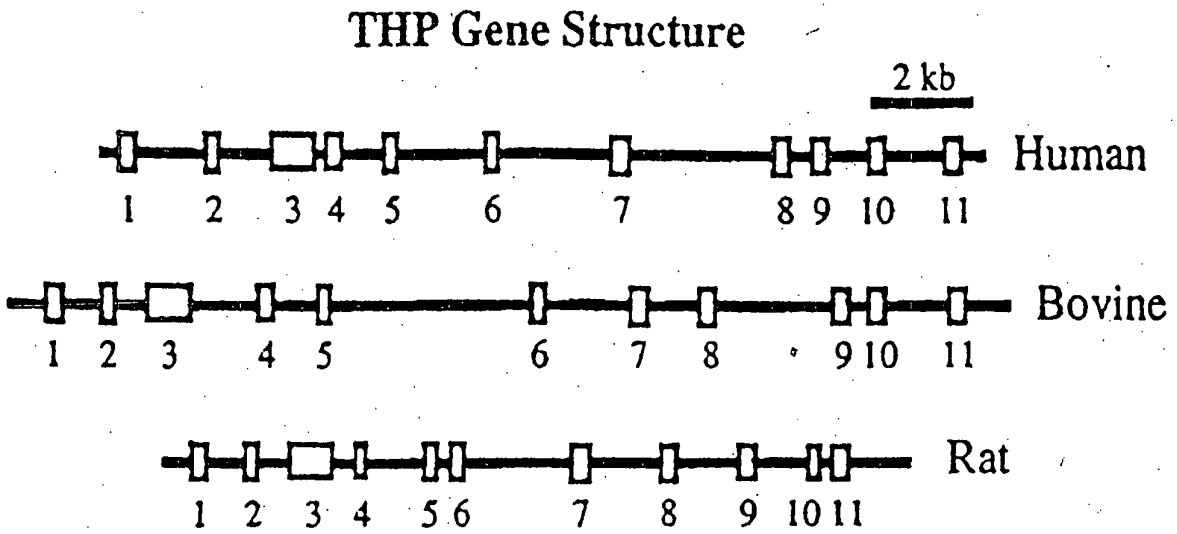

FIG.8

```
2501  TAATCGAGTT GTTGGCCAAA GGAGTTCCAT GGAAACTCCC AAACAATCCA
2551  GGCTATTGGC AAGACTTTTG ATGTCTCTCC ACAAACTGAC AGCAACTGTT
2601  GAAAGACAAT ACCTACACAG CTCACTGAAC ACAGAGAAGC TGAGTTGGTG
2651  CCTACATAAA TCCTCTAGCT CTATGAAGGT CCATAATGGT ATTCATGGCC
2701  CTAGAAGATA CTCTTCCCTC CACCAAAGGA GAAATGTAAA CACTAAGCCA
2751  GCCATAAACC CTTTGGTCTG TTAGAGTGGC CTGCCTGCAA GTTCTGCTGG
2801  TGTAATAATG GCACAGAGCT TGTAGGAGTA ACCAAACAAT ATCTGATAGG
2851  TTAAGGCCCA CTCCATGAGA TCAAACCCAG ACCTAACAAC ACTTGGGTGG
2901  ATGAGAACCC GAGACCAGAT AGGCCAGGGA CCTATGGGAA AACTAAACAT
2951  GACTGTTCTG CTAAAAGAAC CTACCAATAA AATAGCTCCT AGTGACATTC
3001  TGCCATATTT ATAGATCAGT TCCTTGTTCA TCCATCATCA GAAAACTTCC
                    JP.AS14
3051  TCTTCAGTAG ATAGAAACAA ATATAGAGCC CACAGCCAGA TAATATCCAG
3101  AGAGTGAGAT ACCCTGGAAC ACTCAGCTCT AAAAGGGATG TCTCCATCAA
3151  CCCCCCCCCC CCCCACCTTT CAGGACTCAT GAAACCCTCC AGAAGACGAG
3201  TCAGAAAGAG TGTAAGATCC AGAAGGGATG GAGGACATCC AAAACTTAAG
3251  GCCTTCAAGA CACAACTGTA AGGGAACACA TATGAACTTA GAGAGATGGT
3301  GCAGCATGCA CAGAGCCTGC ATGGGCTTGT ACCAGATGGG GTTCTAGAGC
3351  TGAAAGGAGA AATGGATAGC CACTCTGATT CCTAACCCAG AAGTGACCCC
3401  TAACTGATAG TGACTTGCAA ATAAAAAATT AGTCTTTTTT CAAAGGGAGT
3451  CTCACTGGGA AAATAAACCA CTCTAAATAG TAGACCCCAT GCCCAGCAGT
3501  AGATGGCCAA CAGAAAATGA ACTCAATGTC ATCTTTGACC TTCCTTTGTC
3551  GGAAAGCTTT TTGTTTGCTT TTTCTTACCC TACAGGTCCT TTGCATATTT
                                JP.AS13
3601  ATTATGGTTT CTTGTTTCAG GTTTTTAATG GAACTCCTGA GTGTGTGAAT
3651  GTGTGTGTCT CTGCATACAT GTGTGTTTCT TAAGCCCGTT CTTTTTCTTT
3701  TCTTCTCTTT ATTGTTTAAA AAAACAATTG TTCTTTATTT TATTATTATT
3751  CCTTATTTTA GACAGAAACA TTGTGGATCC AGATGGGAGA AGAGGTTGGA
3801  GGAATTGGGA GGAGTAAAGG GACAGAAACC ATAATCAGGG GGAACCATAA
```

FIG.10C

3851 TCAGGGAGAA CCATAATCAG GGGGAGCCAT AATCAGGGGG AGCCATAATC

3901 CAAGGGAACC ATAATCAGAA TATACTGTAT GAAAAAAATT CTATTTTCAA

3951 TAAAAAAAGA ATAAAAAAAA AACAGTCTGA CTGAAGAATA GCACTTGGTA

4001 AGTAACTCTT GTTATAACAA TCCATATCAA ATGCCCTGCC TGTGTTAGCA

4051 AGTTAAGAGA AAAGATTATT CCAAGAGATC CAAGTCTCCT TCAAAACCAA

ZT.S1

4101 GTGTGTACAG AACATTGTCT GAGGAGTAAG ATTGCATTTG GCAACATGCA

4151 TGTCTTTAAT GGTGTGGAGA ATTTCAGTGG AGTTGGCACG TCAGAAAGCA

JP.AS12

4201 CACTGGTGAA AAATGGAGAG AATAGATATA TCCTTTGAGA AATTTGGTCT

4251 CAAAAAGTAG GGTATCAAAT TACTTGGTGT CTGTGAGATC AATTGGTTGT

4301 CTCTGTAGGT TAGCTTACAT AGGAGACAGG AATAAGTGAA GGAGAGAAGG

4351 GAGGACATTG GAGCACCCAA GGAGAGAGGG ACCTTCCTCC TAAAAGTGAA

4401 TGAGGTGGCC TTCATTCCAA GGAGAAGAGA TTCAGGTCGC CCGGGAAGAT

4451 GAGGGACCAA CATCCACAAG GAATGGCAGG AAGTCATCCT GTGTGCATAA

4501 ATGGAGAGAG GGGGTCAAAG ATGGAGCAAA GAAGGATGAG CAAGAAAATG

4551 GTGGATGTGG ATACTCTGAG GATGGCCTGG CTGTGGTGAG CAAAATGTGG

4601 GCAAAGTGGC ACTCCATGAA CAAGACAGCT TGCTCTGTTT GCAGATCCTT

4651 AAATAAAGGC ACATGGCATG CCATGGAGGC TAGGGGAGTG GAGGGGAAAG

4701 GTATATAGAT AGATGCAGAA GTACCAGAGG AGCCAGGAAG GACAGGAGTA

4751 GGAGGGACAG GTTTGCACAA GGCTTTGTCC TCTCCCCACC AGCTCTCTCT

JP.AS11

4801 CCCTTCTGTA TATGCACATA CACAGTGAGC TAGTGTGCAT ATGTGTGCAC

4851 ATATGCATGT GATGAACAGA GGCCAGTCTT GGGTGTCAGT CTTCAGGCCC

4901 TATCTACCTT GTTTTTGAGA CAATCTCACT TGAGTGAGTT GAGTGACTCT

4951 CCTAGTATTC TACAGAGGTT TCCTCAGGTG GGGAGGAATG GGTGGGAGAA

5001 GCAAATTTAA GACTGGTTGA TTTCTTGAAT TTCAGTGGGC TTGGGAAATA

5051 GCAGCTATAT ATTCAGTTTC CTCGTTCCTG GCTGGCTTCC TGGGGTGATC

5101 AGAGCAGAGT ATAGTAGCCC TGTGTGGCAG TCACACCAAG CAGACAGAAG

5151 ATAGGGCATG GCTCTGGTGT GGCTGGTAGA CATAGGAAAG GATCCTTGTA

FIG.10D

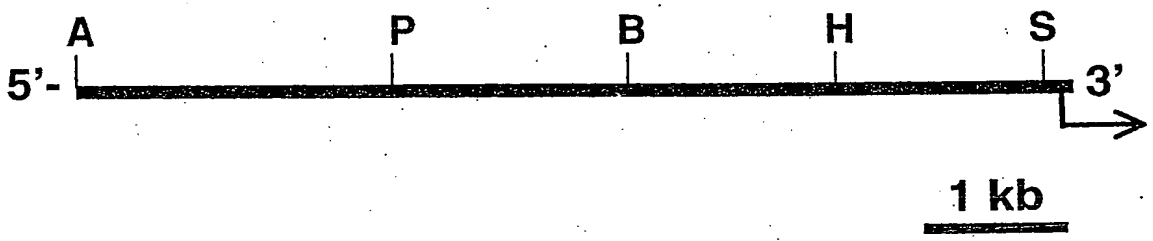

FIG.11

```
  1  TACTGGCGCA GCACAGAGTA CGGCTCCGGC TACGTCTGTG ATGTCAGTCT
                                              <-AS14
 51  GGGCGGCTGG TACCGCTTCG TGGGCCAGGG CGGCGTGCGC CTGCCCGAGA
101  CCTGCGTGCC CGTCCTGCAC TGCAACACGG CCGCGCCTAT GTGGCTCAAC
                                        <-AS15
151  GGCACGCACC CATCGAGCGA CGAGGGCATC GTGAACCGCG TGGCCTGTGC
201  GCACTGGAGC GGCGACTGCT GCCTGTGGGA CGCGCCTGTC CAAGTGAAGG
251  CCTGTGCCGG CGGCTACTAC GTGTACAACC TGACAGAGCC CCCTGAG
     <-AS17
```

FIG.12

```
  1  ACTATAGGGC ACGCGTGGTC GACGGCCCGG GCTGGTAAAT CTTAAAAAAA
 51  AAAAAAAACA AAAAGAACAT CACTAAGCCC CCCTGCCCTG GCACTTTATT
101  GGAAGGTCAA GAACACACTC AACCACACAA GAGATGTGAA CATACCTGTG
151  TGGTACCCAA AGACATCCCC TTTCACACAT ACATGACCCT TCCATTGGGT
201  TGCACATTGC TGTTAGCTTT TTGTTGGAGA AGGGAGCTAG ACACCTCTAC
251  ACAACCCCCA ACTGGAGTTC TCTGGAACAG AGTAAATACC ATCGTGTCAT
301  CATGGAGCGC ACACACACTG TGGTCCTGCA ACCTCGATTT GTGTCCTGGC
351  TCTGCTGCTT ACCAATGAAG CAAGTAGCTT AAACCTTCTG AATCTCAAGT
401  TTCCTCACCC TCAAACTATA GCTAAATACA AAAGTCATTT CCCAGGGCCA
451  CTGGAGAGGA TTCTATCAGA TAATGGATAG AAGATGCCTA TCCCAGTGTT
501  TGACATATCC TAAGTGCTTA ATACACGAGA GCTCACCATC TTTACTGGTA
551  TTATTGCACA GAGAAACACA CAAAGTGTCA GTGCCCCTGC TAGGTAGAGA
601  GGGANGCANG GNAAGGAGAT CTGAGCAAAA GGCATAGAAT ATATCAAGCT
651  GGG
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AS1 AS2 AS3 AS4 AS5

FIG.13A

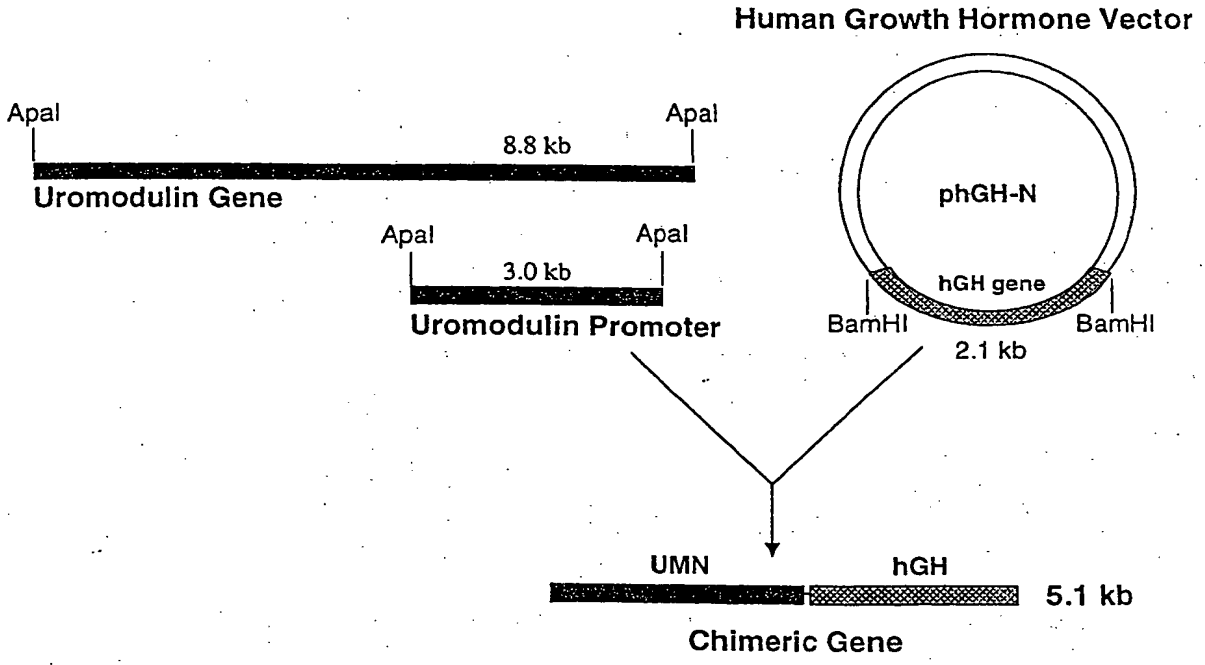

FIG.16